

FIG. 1A

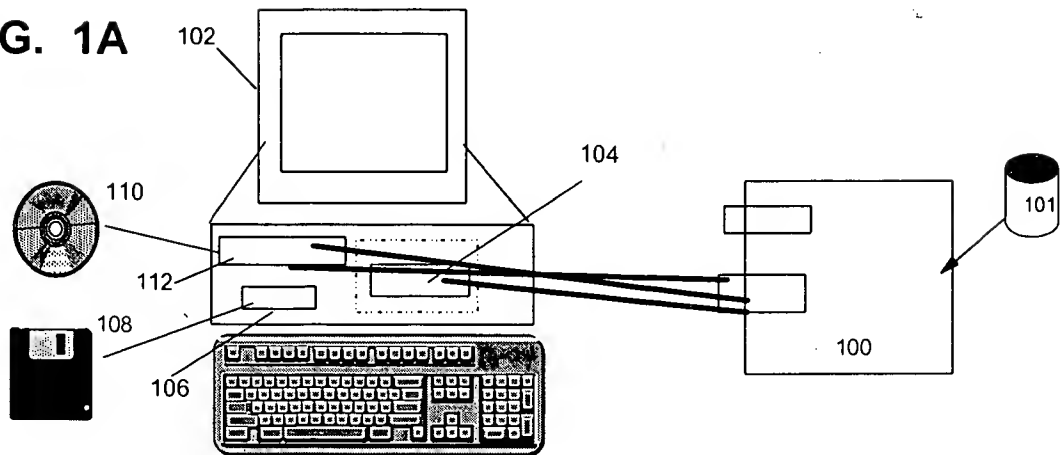


FIG. 1B

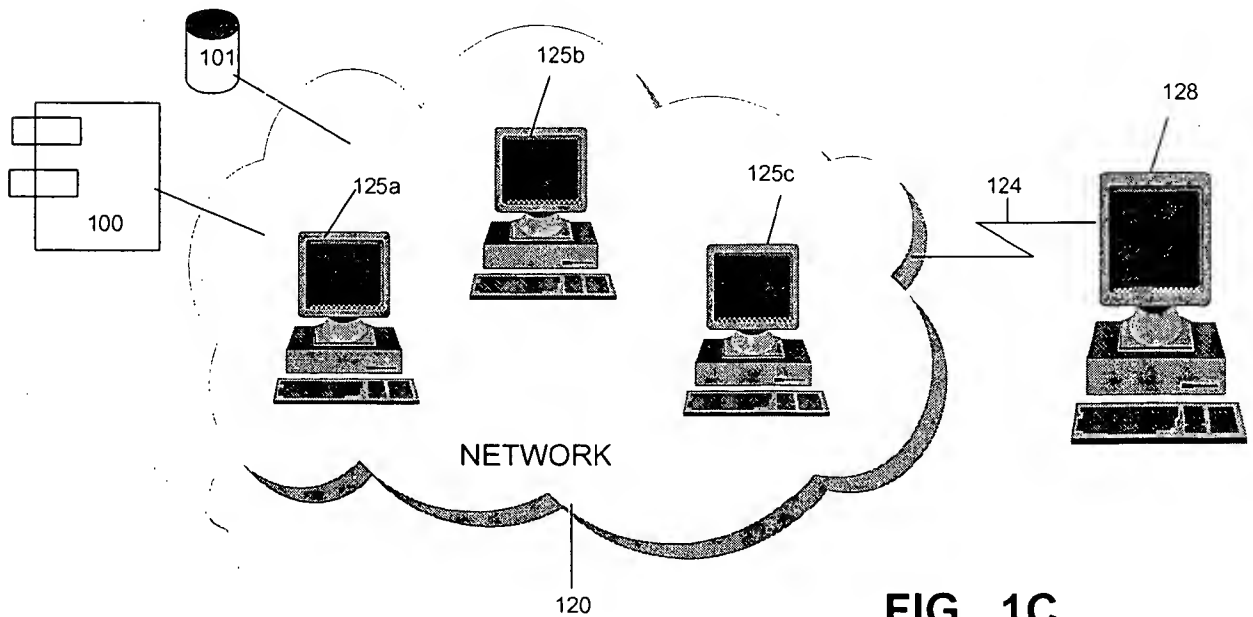
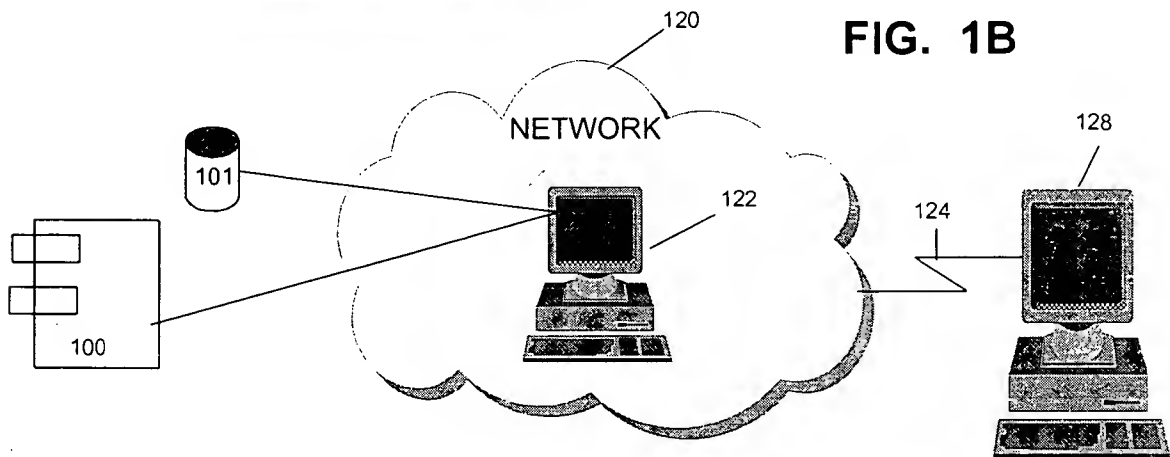


FIG. 1C

FIGURE 2

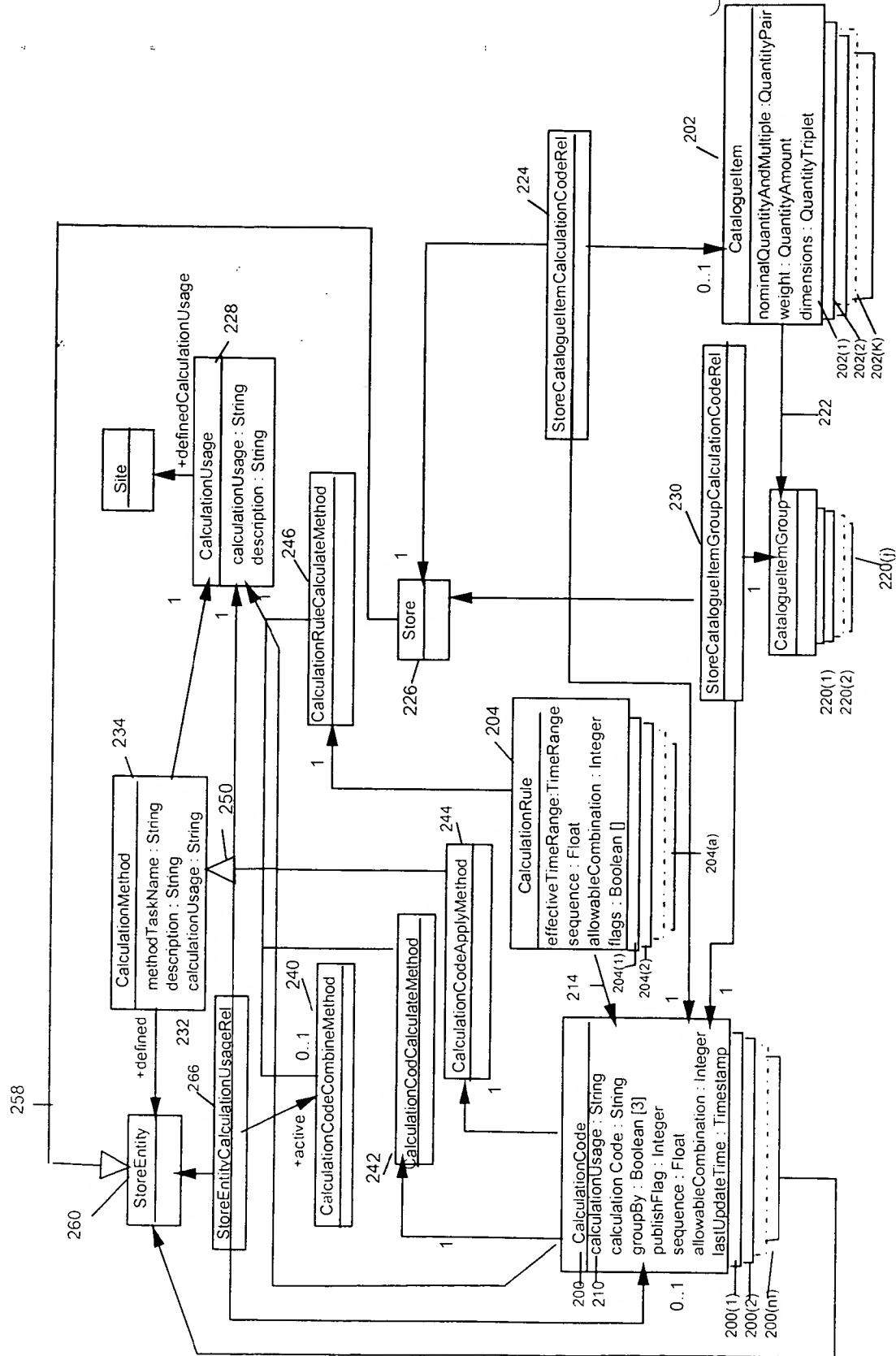


FIGURE 3

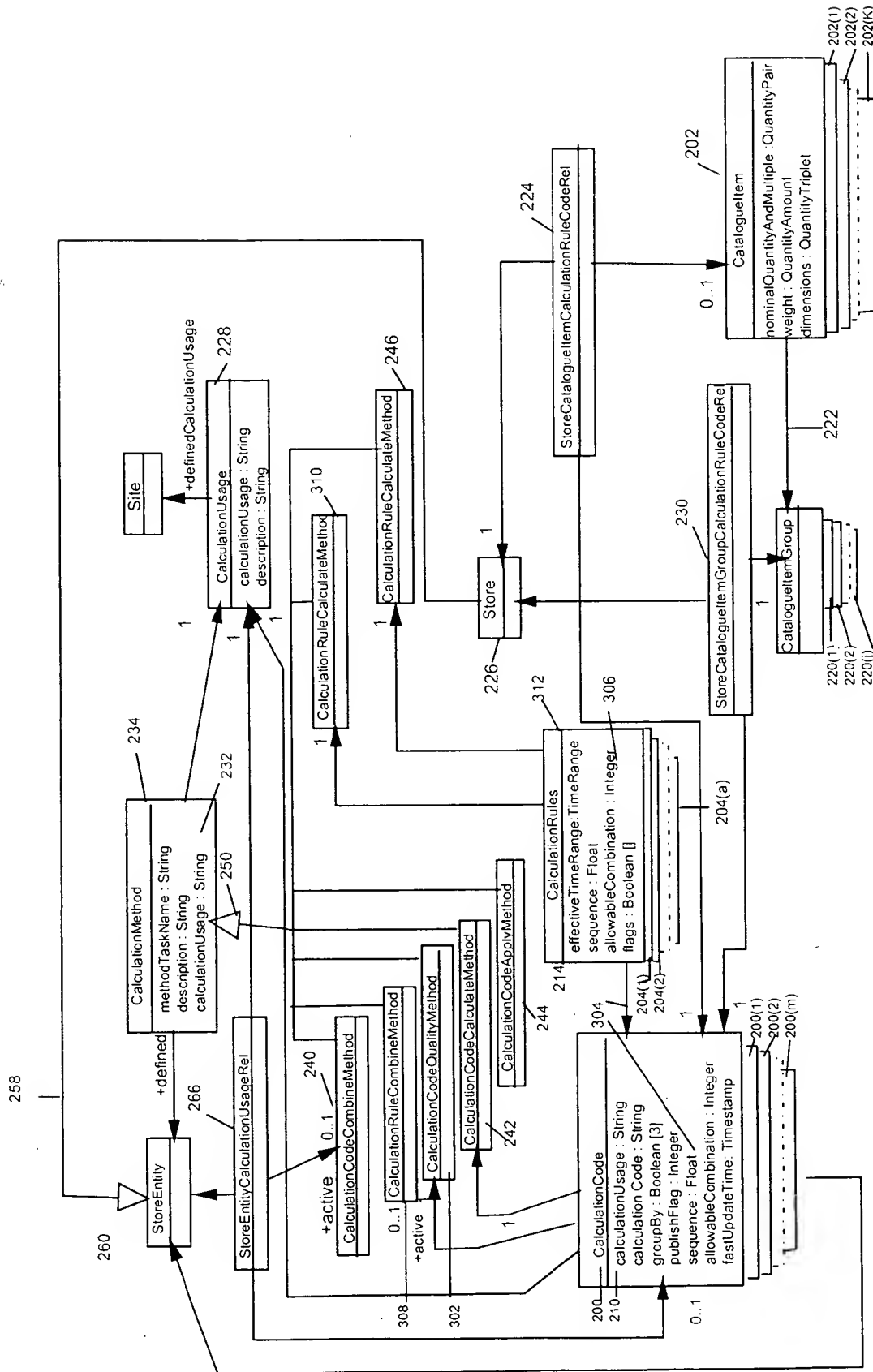


Figure 4

Main Module 400

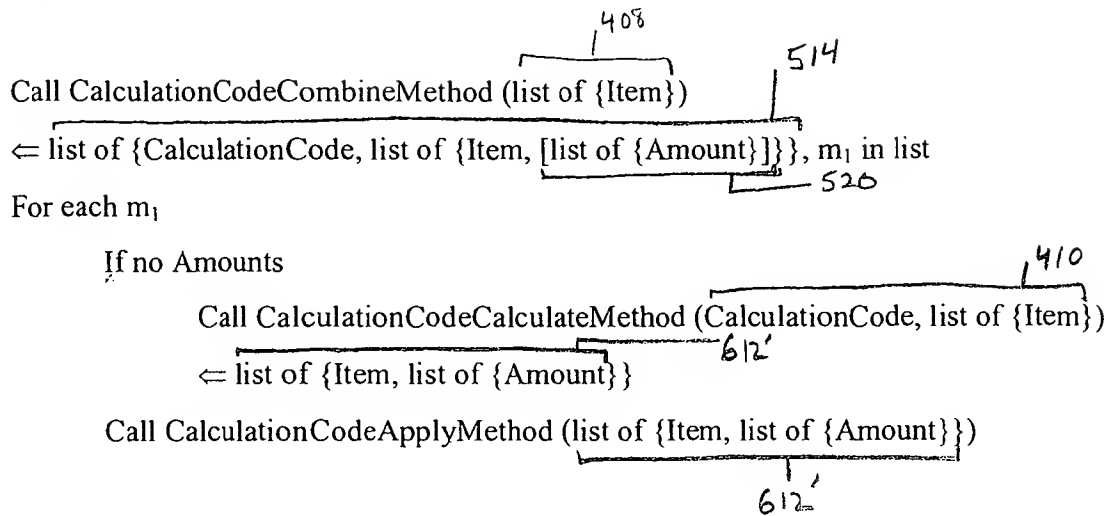


Figure 5

CalculationCodeCombineMethod (list of {Item}) – discounts, shipping

Associate CalculationCodes (list of {Item})

\Leftarrow list of {CalculationCode, list of {Item}}, m_1 in list 510

For each m_1

Call CalculationCodeQualifyMethod (CalculationCode, list of {Item})

\Leftarrow CalculationCode, list of {Item, [list of {Amount}]} 512

Sort (list of {CalculationCode, list of {Item, [list of {Amount}]}}) by sequence attribute 510'

Return (list of {CalculationCode, list of {Item, [list of {Amount}]}}) 520

514

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Figure 6

CalculationCodeCalculateMethod (CalculationCode, list of {Item})

Call CalculationRuleCombineMethod (CalculationCode, list of {Item})
 410
 ⇐ list of {CalculationRule, list of {Item, [list of {Amount}]}}, n_x in list
 520
For each n_x

 If no Amounts

 Call CalculationRuleCalculateMethod (CalculationRule, list of {Item})

 ⇐ list of {Item, Amount}
 610
 612

 Sum into list of {Item, list of {Amount}}

Return (list of {Item, list of {Amount}})

612'

Figure 7

One order item 202 - Boots 700 – unit price 702 - \$100.00

Calculation Code 200 associated with boots 700

- discount 706

Calculation Rule 204 associated with discount 706

- discount A 708 - 10% off unit price

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Figure 8

CalculationCodeCombineMethod(boots)
Associate CalculationCodes (boots)
Gives: discount, boots
CalculationCodeQualifyMethod (discount, boots)
Gives: discount, boots as qualified
Sort list of qualified calculation codes gives: 1. discount, boots
Return: 1. discount, boots

1. Discount, boots

No Amount, so

CalculationCodeCalculateMethod (discount, boots)
CalculationRuleCombineMethod (discount A, boots)
Gives: discount A, boots

No Amount, so

CalculationRuleCalculateMethod (discount A, boots)

Gives: boots, -\$10.00 discount

summed list: boots, -\$10.00 discount

Return: boots, -\$10.00 discount

CalculationCodeApplyMethod (boots, -\$10.00 discount)

Gives: Boots unit price \$100.00, discount A -\$10.00, adjusted unit price \$90.00

700 702 708 800 820

FIGURE 9

FINAL ORDER - BOOTS - 700

UNIT PRICE - 702	\$100.00
DISCOUNT A - 708	<u>-\$10.00</u>
ADJUSTED UNIT PRICE	\$ 90.00
802	
TOTAL -- 902	\$ 90.00

800

Figure 10

Items 202(x)

- Boots 1000 – unit price 702 – \$100.00
- Shoes 1002 x 2 – unit price 702 – \$40.00
- Socks 1004 – unit price 702 – \$2.00

Calculation Codes 200(x) associated with boots 1000

- shipping code 1 1010
 - sequence 304 = 5
- shipping code 2 1014
 - sequence 304 = 1
 - applicable if buying more than one pair

Calculation Codes 200(x) associated with shoes 1002

- shipping code 1 1010
 - sequence 304 = 5
- shipping code 2 1014
 - sequence 304 = 1
 - applicable if buying more than one pair

Calculation Codes 200(x) associated with socks 1004

- shipping code 1 1010
 - sequence 304 = 5
- shipping code 2 1014
 - sequence 304 = 1
 - applicable if buying more than one pair

Figure 10 continued – 2

Calculation Rules 204(x) associated with shipping code 1 1010

- shipping A 1020
 - add \$4.00 per unit
 - allowable combination 306 = in addition to
 - for shipping within the country
- shipping surcharge A 1022
 - add 5% surcharge on shipping charge if within a date range specified
 - allowable combination 306 = in combination with
 - for shipping within the country
- shipping surcharge B 1024
 - add 10% surcharge on shipping charge if there is not already a surcharge
 - allowable combination 306 = not in combination with
 - for shipping within the country
- shipping D 1026
 - add \$10.00 per unit
 - allowable combination 306 = in addition to
 - for shipping outside of the country

Calculation Rules 204(x) associated with shipping code 2 1014

- shipping X 1028 - \$2.00 added to total
- allowable combination 306 = in addition to

Figure 11

CalculationCodeCombineMethod (boots, shoes x 2, socks)
Associate CalculationCodes (boots, shoes x 2, socks)
Gives: shipping code 1, {boots, shoes x 2, socks}; shipping code 2, {boots, shoes x 2, socks}
CalculationCodeQualifyMethod (shipping code 1, {boots, shoes x 2, socks})
Gives: shipping code 1, {boots, shoes x 2, socks} as qualified
CalculationCodeQualifyMethod (shipping code 2, {boots, shoes x 2, socks})
Gives: shipping code 2, {shoes x 2} as qualified
Sort list of qualified calculation codes gives: 1. shipping code 2, {shoes x 2}; 2. shipping code 1, {boots, shoes x 2, socks}
Return: 1. shipping code 2, {shoes x 2}; 2. shipping code 1, {boots, shoes x 2, socks}

1. Shipping code 2, {shoes x 2}
No Amount, so
CalculationCodeCalculateMethod (shipping code 2, {shoes x 2})
CalculationRuleCombineMethod (shipping code 2, {shoes x 2})
Gives: shipping X, {shoes x 2}
No Amount, so
CalculationRuleCalculateMethod (shipping X, {shoes x 2})
Gives: shipping X, {shoes x 2, \$2.00}
summed list: shipping X, {shoes x 2, \$2.00}
Return: shipping X, {shoes x 2, \$2.00}
CalculationCodeApplyMethod (shipping X, {shoes x 2, \$2.00})
Gives: {Boots unit price \$100.00}, {shoes x 2 unit price \$40.00, shipping X \$2.00}, {socks unit price \$2.00}

2. Shipping code 1, {boots, shoes x 2, socks}
No Amount, so
CalculationCodeCalculateMethod (shipping code 1, {boots, shoes x 2, socks})

CalculationRuleCombineMethod (shipping code 1, {boots, shoes x 2, socks})

Gives: shipping A, {boots, shoes x 2, socks}; shipping surcharge A, {boots, shoes x 2, socks}

No Amount, so

CalculationRuleCalculateMethod (shipping A, {boots, shoes x 2, socks})

Gives: {boots, \$4.00}, {shoes x 2, \$4.00}, {socks, \$4.00}, shipping A summed list: {boots, \$4.00}, {shoes x2, \$4.00}, {socks, \$4.00}, shipping A

CalculationRuleCalculateMethod (shipping surcharge A, {boots, shoes x 2, socks})

Gives: {boots, \$0.20}, {shoes x 2, \$0.20}, {socks, \$0.20}, shipping surcharge

summed list: {boots, \$4.00, \$0.20}, {shoes x 2, \$4.00, \$0.20}, {socks, \$4.00, \$0.20}

CalculationCodeApplyMethod ({boots, \$4.00, \$0.20}, {shoes x 2, \$4.00, \$0.20}, {socks, \$4.00, \$0.20})

Gives: {Boots unit price \$100.00, shipping A \$4.00, shipping surcharge A \$0.20}, {shoes x 2 unit price \$40.00, shipping X \$2.00, shipping A \$4.00, shipping surcharge A \$0.20}, {socks unit price \$2.00, shipping A \$4.00, shipping surcharge A \$0.20}

Figure 12

Final Order - boots 1000, shoes 1002 x 2, socks 1004

Boots 1000 Unit price	\$100.00	\$100.00
Shoes 1002 Unit price	\$40.00	\$80.00
Socks 1004 Unit price	\$2.00	\$2.00
Shoes 1002 Shipping X 1028	<u>\$2.00</u>	
Shipping Code 2	\$2.00	\$2.00
Boots 1000 Shipping A 1020	\$4.00	
Shoes 1002 Shipping A 1020	\$8.00	
Socks 1004 Shipping A 1020	<u>\$4.00</u>	
Shipping Code 1	\$16.00	\$16.00
Boots 1000 Shipping surcharge A 1022	\$0.20	
Shoes 1002 Shipping surcharge A 1022	\$0.40	
Socks 1004 Shipping surcharge A 1022	<u>\$0.20</u>	
Shipping surcharge	\$0.80	<u>\$0.80</u>
Total 1200		\$200.80

FIGURE 13

